



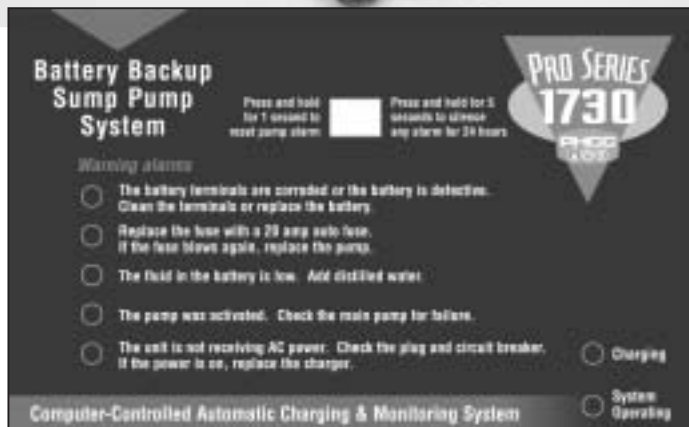
Battery Backup Sump Pump System

Instruction Manual & Safety Warnings



Table of Contents

Important Safety Warnings and Instructions		Hooking Up the Battery	9
Electrical Precautions	1	Hooking Up the Charger	9
Battery Preparation	1	Understanding the Warning Lights and Alarms	
Battery Precautions	1	Understanding the Automatic Charging System	10
Introduction		Silencing the Alarm	10
Items Included in System	2	During an Emergency	10
Additional Items Needed	2	Battery Alarm	10
System Specifications	2	Cleaning Battery Terminals	10,11
Replacement Parts List	2	Replacing the Battery	11
Pump & Pipe		Fuse Alarm	11
Installation Instructions		Water Alarm	12
Installation Options	3	Power Alarm	12
Direct Discharge to Outside	4	Pump Alarm	12
Hookup to Existing Discharge	5	Replacing the Pump	12,13
Direct Discharge for Narrow Sumps	6	Testing the System	
Hookup to Existing Discharge for Narrow Sumps	7	Test-Reset-Silence Button	13
Battery Instructions		Testing the Float Switch	13
Preparation of the Battery	8	Parts & Service Information	
Control Unit Hookup		Technical Support	13
Positioning the Float Switch	9	Quick Reference Guide	14
Hooking Up the Pump	9	Warranty	14
Installing the Battery Fluid Sensor	9		



IMPORTANT: Even if you have the Pro Series 1730 Backup Sump Pump System installed by someone else, you must read and follow the safety information contained in this manual. Failure to do so could result in property damage, serious injury, or death.

Important Safety Warnings & Instructions

SAVE THESE INSTRUCTIONS. This manual contains important SAFETY WARNINGS and OPERATING INSTRUCTIONS for the Pro Series 1730 Battery Backup Sump Pump System. You will need to refer to it before attempting any installation or maintenance. ALWAYS keep these instructions with the unit so that they will be easily accessible.

Failure to read and follow these warnings and instructions could result in property damage, serious injury, or death. It is important to read this manual, even if you did not install the Pro Series 1730 backup sump pump, since this manual contains safety information regarding the use and maintenance of this product. DO NOT DISCARD THIS MANUAL.

ELECTRICAL PRECAUTIONS

⚠ DANGER

Risk of electrical and fire hazard. May result in death, serious injury, shock or burns.

To help reduce these risks, observe the following precautions:

- **DO NOT** walk on wet areas of the basement until all power has been turned off. If the main power supply is in a wet basement, call an electrician.
- **NEVER** handle the control unit with wet hands or while standing on a wet surface.
- **ALWAYS** unplug the control unit and disconnect the cables from the battery before attempting any maintenance or cleaning.
- **ALWAYS** unplug the main pump when installing or servicing the backup pump to avoid electric shock.
- Remove personal metal items such as rings, bracelets, watches, etc. when working with a lead-acid battery. A short circuit through one of these items can melt it causing a severe burn.

- **DO NOT** expose the control unit to rain or snow.
- Pull the plug rather than the cord when disconnecting the control unit.
- An extension cord should not be used unless absolutely necessary. If an extension cord must be used, be sure the plug has the same configuration as the plug on the control unit.
- Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire or injury from an electrical shock.
- **DO NOT** operate the computer control unit if it has received a sharp blow, been dropped, or otherwise damaged in anyway. Contact Glentronics technical support at 800-991-0466, option #3.
- **DO NOT** disassemble the control unit. When service is required, contact Glentronics technical support at (800) 991-0466, option #3. Return the control unit to the manufacturer for any repairs at the following address:

Glentronics, Inc.
1150 Willis Ave.
Wheeling, IL 60090

BATTERY PREPARATION

⚠ WARNING / POISON

Sulfuric acid can cause blindness or severe burns. Avoid contact with skin, eyes or clothing. In the event of accident, flush with water and call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

To help reduce these risks, observe the following precautions:

- Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- Wear eye and clothing protection and avoid touching your eyes while working with battery acid or working near the battery.

- If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention.
- Batteries posts and terminals contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

BATTERY PRECAUTIONS

⚠ DANGER

Explosive gases could cause serious injury or death. Cigarettes, flames or sparks could cause battery to explode in enclosed spaces. Charge in well-ventilated area. Always shield eyes and face from battery. Keep vent caps tight and level.

To help reduce these risks, observe the following precautions:

- **NEVER** smoke or allow a spark or flame in the vicinity of the battery.
- Use the Pro Series 1730 control unit for charging a LEAD-ACID battery only. Do not use the control unit for charging dry-cell batteries that are most commonly used with home appliances.
- Be sure the area around the battery is well ventilated.
- When cleaning or adding water to the battery, first fan the top of the battery with a piece of cardboard or another non-metallic material to blow away any hydrogen gas that may have been emitted from the battery.
- **DO NOT** drop a metal tool onto the battery. It might spark or short-circuit the battery and cause an explosion.
- **ALWAYS** remove the charger from the electrical outlet before connecting or disconnecting the battery cables. *Never allow the rings to touch each other.*
- Check the polarity of the battery posts. The POSITIVE (+) battery post usually has a larger diameter than the NEGATIVE (-) post.



POSITIVE POST HAS LARGER DIAMETER



NEGATIVE POST HAS SMALLER DIAMETER

- When connecting the battery cables, first connect the small ring on the end of the BLACK wire to the NEGATIVE (-) post of the battery, and then connect the large ring on end of the RED wire to the POSITIVE (+) post of the battery.



⚠ DANGER

Do not use system to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc.

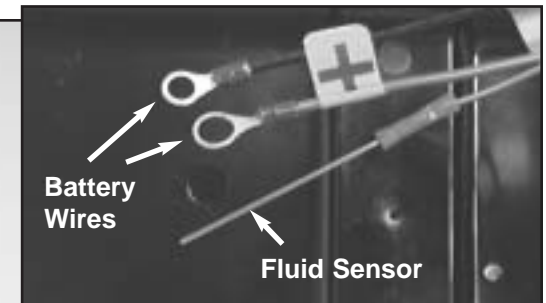
Introduction

The Pro Series 1730 backup sump pump system is battery-operated. It is designed as an emergency backup system to support your regular AC sump pump, and it will automatically begin pumping anytime the float switch is activated. Should any malfunction or emergency occur that involves the sump pump, the battery, or the AC power, your Pro Series 1730 system will sound an alarm. A light on the display panel of the control unit will indicate the cause of the alarm and the corrective action.

The Pro Series 1730

Sump Pump System includes:

- A control unit with a float switch and a battery fluid level sensor
- A pump with 1½" PVC pipe adapter
- A plastic wire tie for mounting the float switch
- A battery box
- A battery cap with a hole to accommodate the fluid sensor
- A battery charger
- A 20-amp fuse
- Corrosion protection material
- A battery filler for adding distilled water to the battery



System Specifications

Power supply requirements. 115 volts AC
 Pumping capacity. 2500 GPH @ 0'
 Pumping capacity. 1730 GPH @ 10'
 Pump dimensions 7¼ H x 5" W
 Pump dimensions w/elbow 7¼ H x 9" W
 Pump housing & strainer Non-corrosive, will not rust
 Pump Can run dry; can be used in sumps with water softener or laundry discharge
 Float switch Independent; can be set at any level

Replacement Parts List

Description	Part No.
Pump	1011007
Float switch assembly	1020003
Fluid sensor assembly	1014001
Pipe Adapter	1120002
Charger	1015001
Battery Box	1113003
Corrosion protector	1305000
Battery cap with hole	1125000

Call 800-991-0466 to order parts.

You will also need to supply:

- A Pro Series 2200 Standby Battery, or another deep cycle battery
(Do not use a maintenance-free or a sealed battery.)
- 1½" rigid PVC pipe and fittings
- PVC cement and primer
- A rubber union with hose clamps or a "Y" connector and two (2) check valves depending on the installation method you use
- Six (6) quarts of 1.265 specific gravity battery acid



For narrow sump pits you will need some additional parts:

- An "L" bracket at least 6 inches long. (Preferably one that will not rust.)
- Two (2) stainless steel hose clamps
- One (1) stainless steel screw (#8-32 x 3/4"), a matching washer & nut



Pump & Pipe Installation Instructions

There are two basic methods that can be used to install the pump, a direct discharge to the outside of the building, or a hookup to an existing discharge pipe. The same two options apply in very narrow sump pits where the backup pump must be mounted above the main pump.

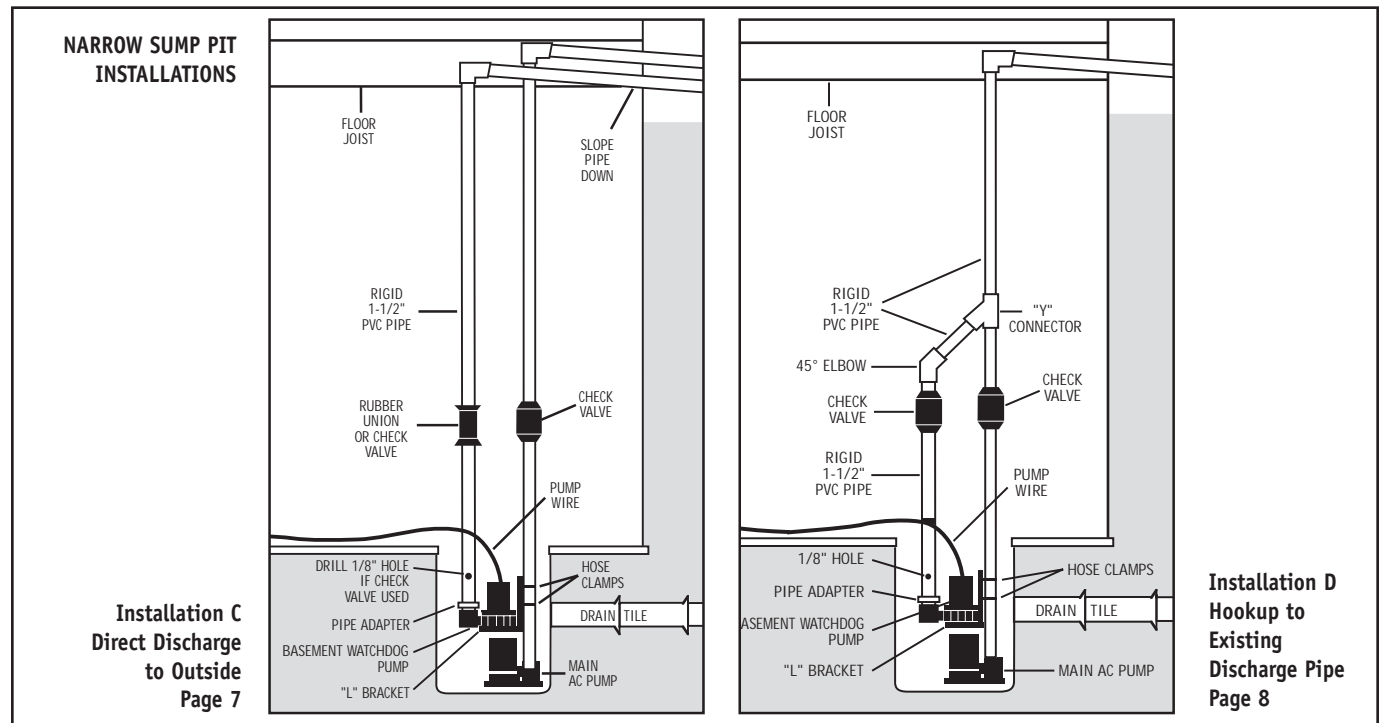
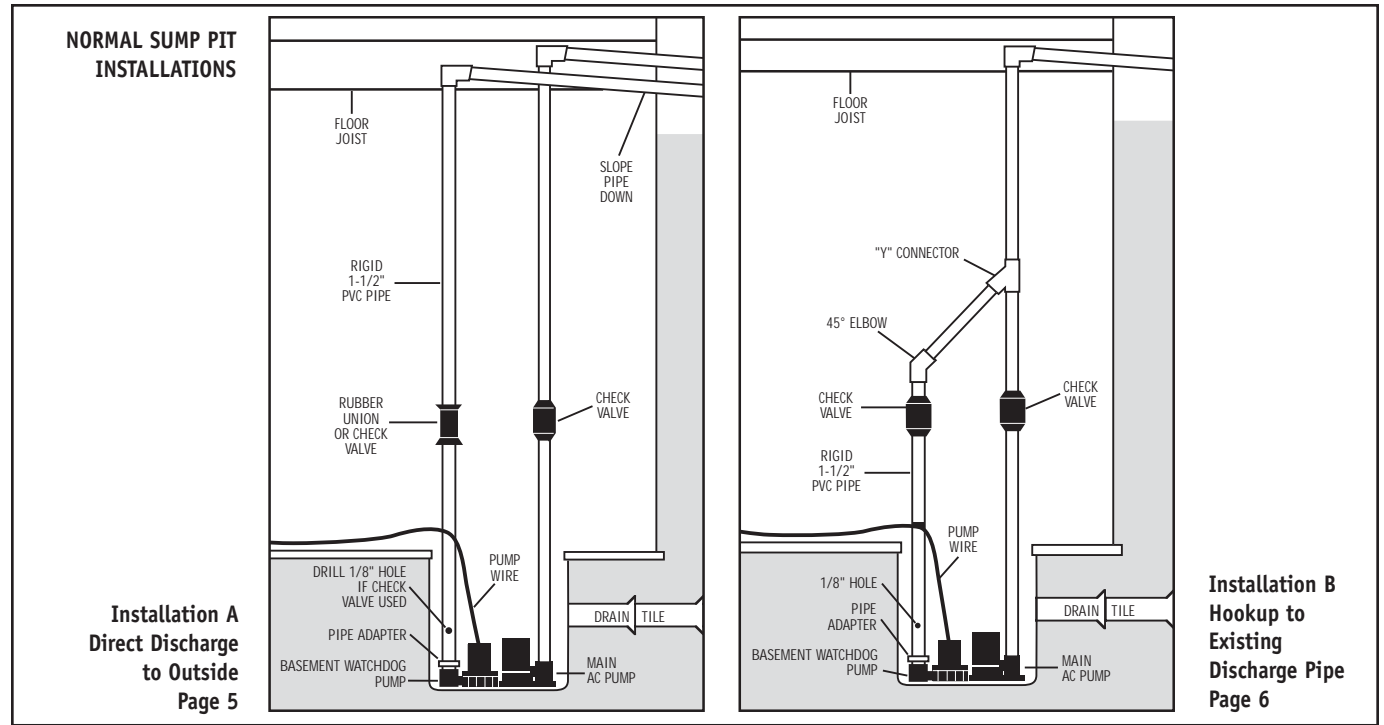
Whenever possible, install your Pro Series 1730 backup pump with a direct discharge to the outdoors. By using this method, there will always be an outlet for the water from the sump. During times of very heavy rain, many storm sewers fill up. If your pump is trying to discharge water into a full sewer, there is nowhere for the water to go. By discharging directly outdoors, there is always an outlet for the water that is pumped out of the sump. For this method, you will need to drill a hole through a floor joist or the foundation from the basement to the outside of the house.

If the direct discharge method is not possible or convenient, the Pro Series pump can be hooked up to the same line as your AC sump pump by installing a "Y" connector and two check valves.

In most cases the backup pump will fit next to the main AC pump in the sump pit. In very narrow pits, the backup pump can be mounted above the main pump. Try to fit the backup pump on the floor of the sump first.

Select the installation method that will best suit your needs from the diagrams at the right. Full instructions for each installation method are provided on the following pages.

Installation will take a couple hours.



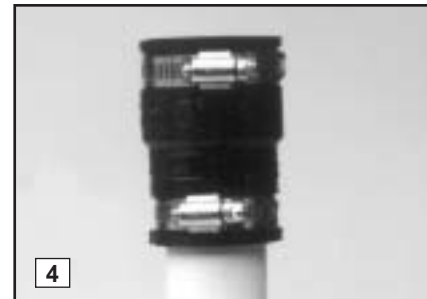
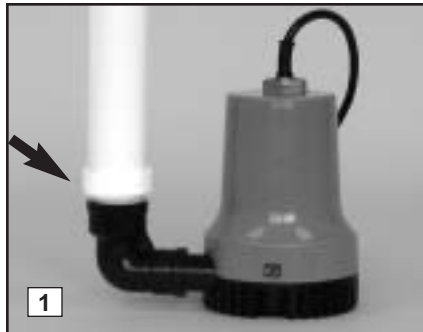
Pump & Pipe Installation Instructions

INSTALLATION A: DIRECT DISCHARGE TO THE OUTSIDE OF THE BUILDING (Diagram A)

⚠ DANGER

Unplug the main AC pump when installing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

1. Cut a four-foot (4') piece of 1½" rigid PVC pipe and cement it to the pipe adapter that is attached to the elbow on the pump.
2. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
3. Place the pump with the 4' PVC pipe attachment on the bottom of the sump floor next to the main AC pump. Do not mount the pump to any existing pipes; it should be placed on the floor of the sump. A brick may



be placed under the pump if there are rocks or other debris on the sump floor that may clog the pump.

4. Attach a rubber union or check valve (sold separately) to the top of the 1½" pipe. This will allow the pump to be removed easily, should the need arise.

The path of the rest of the pipe and the details of each installation will vary. Using sound plumbing practices, try to route the discharge pipe to an exterior wall via the shortest path with the fewest turns. More turns will reduce the pumping capacity. The pipe section exiting the building should be on a downward slope so that the water in the pipe will exit outside instead of returning to the sump. Extend the discharge pipe outside the building as far as possible to avoid the return of discharged water to the sump. *Be sure to seal the hole in the wall where the pipe exits and cement or clamp all connections securely to prevent leaking.* No check valve is needed with this method of installation, as long as you use *less than 20 feet* of pipe.

CAUTION

If you use more than a total of 20 feet of pipe in the installation, install a check valve in place of the rubber union. Make sure it is installed with the arrow pointing up or it will not prevent the backflow of water. When a check valve is used, a 1/8" hole must be drilled in the PVC pipe 3" above the Pro Series pump. If a hole is not drilled above the pump, an air lock may prevent the pump from operating, and the basement will flood.

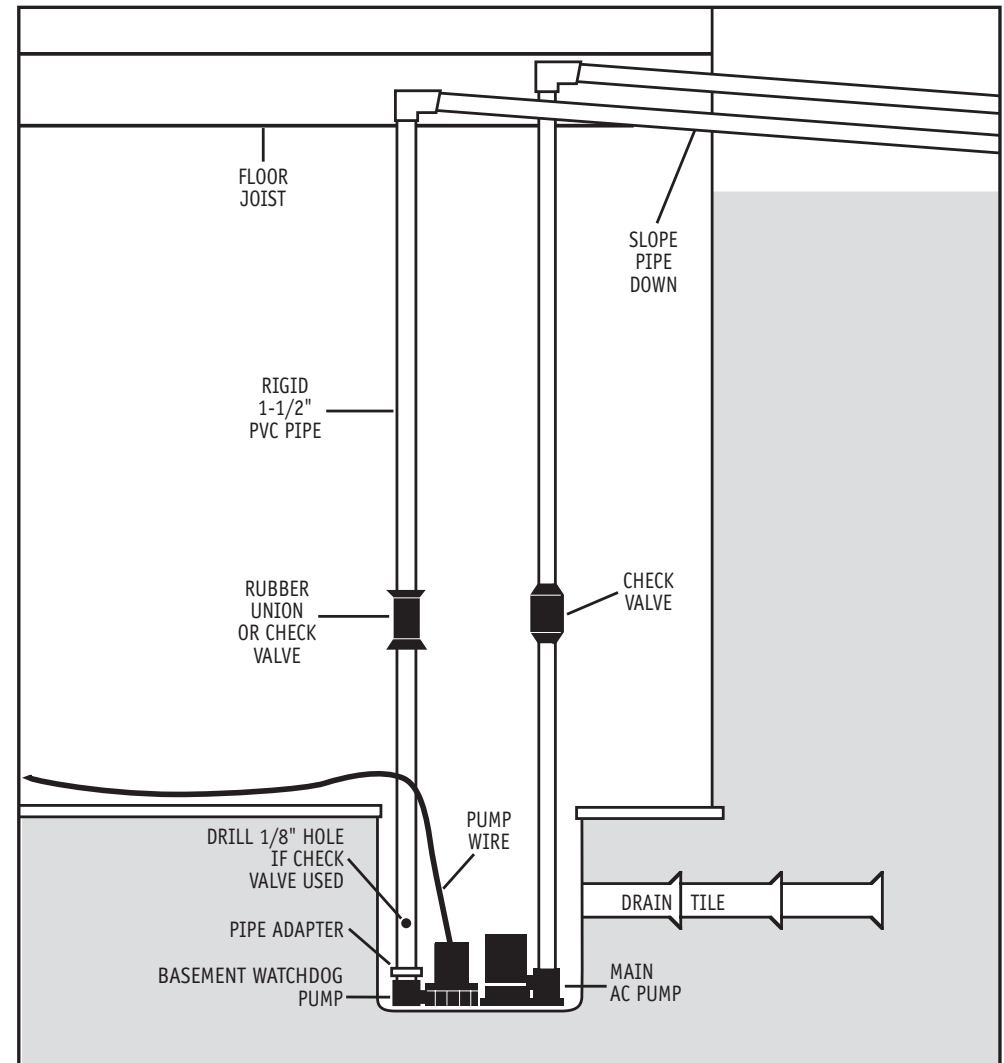
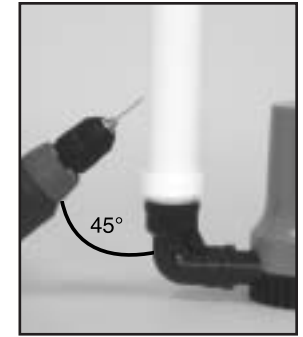
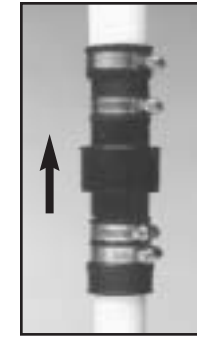


Diagram A

Pump & Pipe Installation Instructions

INSTALLATION B: HOOKUP TO AN EXISTING DISCHARGE PIPE (Diagram B)

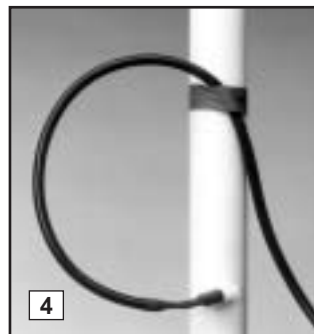
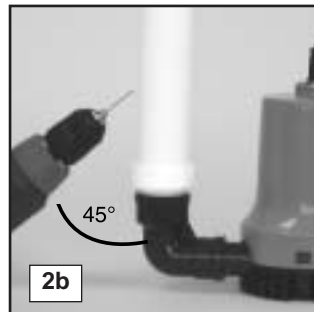
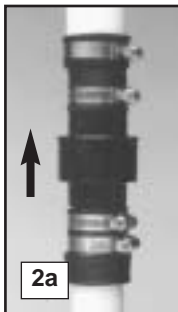
⚠ DANGER

Unplug the main AC pump when installing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

1. Cut a four-foot (4') piece of 1/2" rigid PVC pipe and cement it to the pipe adapter that is attached to the elbow on the pump.
2. (a) Install a check valve on the PVC pipe attached to the Pro Series pump. Make sure it is installed with the arrow pointing up or it will not prevent the backflow of water.

CAUTION

2. (b) When a check valve is used, drill a 1/8" hole in the 1/2" PVC pipe three inches (3") above the connection to the Pro Series pump. Drill the hole at a 45° angle toward the bottom of the sump to avoid splashing water outside the sump pit. If a 1/8" hole is not drilled above the pump, an air lock may prevent the pump from operating, and the basement will flood.
3. If there is no check valve on the main AC pump, one must be installed at this time. Then install a "Y" connector above the check



valve on the discharge pipe for the main AC pump.

4. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
5. Place the pump with the 4' PVC pipe attachment on the bottom of the sump floor, next to the main AC pump. Do not mount the pump to any existing pipes...it should be placed on the floor of the sump. A brick may be placed under the pump if there are rocks or other debris on the sump floor.
6. Connect a 1/2" diameter discharge pipe above the check valve of the Pro Series pump, and attach a 45° elbow to that pipe. Extend another piece of pipe to reach the "Y" connector you have inserted above the check valve on the discharge pipe of the main pump.
7. Cement or clamp all connections securely to prevent leaking.

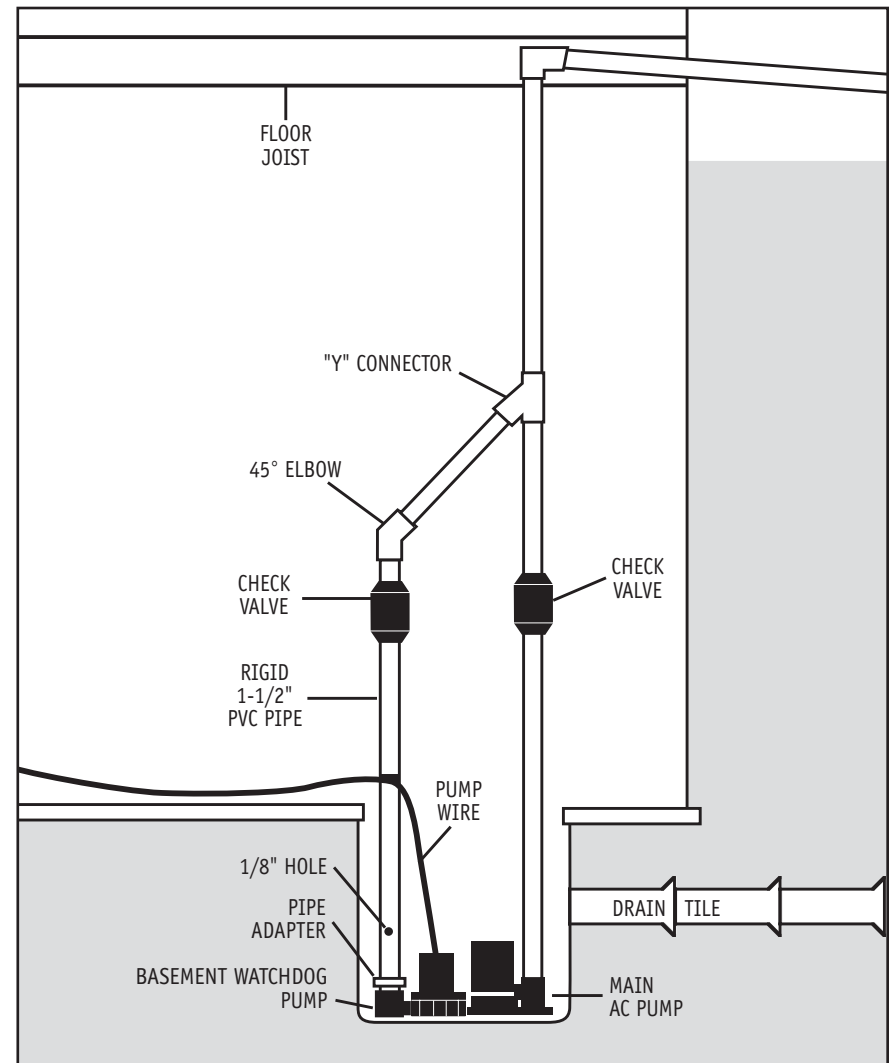
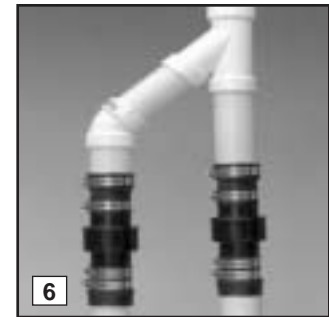


Diagram B

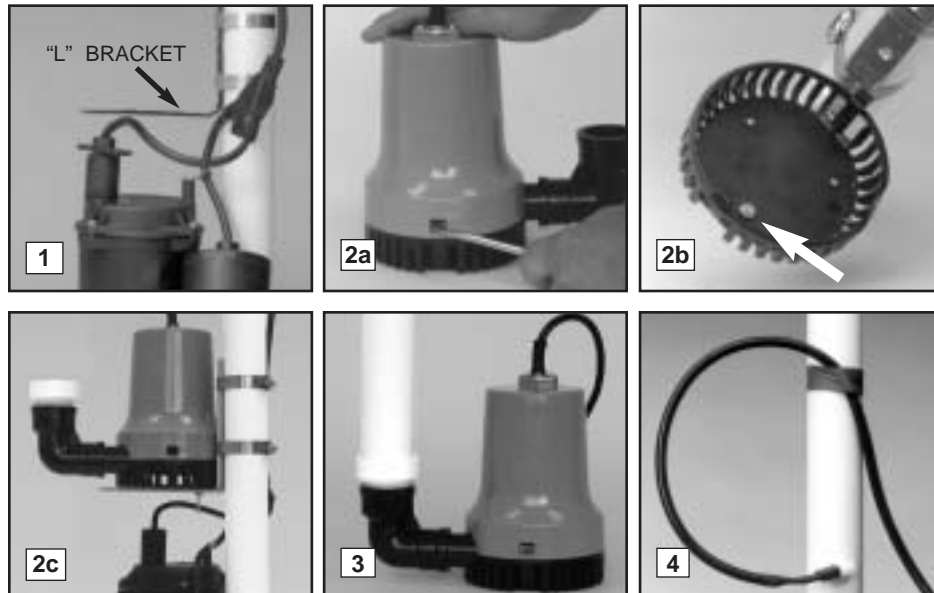
Pump & Pipe Installation Instructions

INSTALLATION C: DIRECT DISCHARGE TO THE OUTSIDE OF THE BUILDING FOR NARROW SUMP PITS (Diagram C)

⚠ DANGER

Unplug the main AC pump when installing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

1. Attach an "L" bracket to the discharge pipe of the main AC pump with two (2) stainless steel hose clamps. Position the bracket so the bottom of the "L" is just above the top of the main pump, and out of the way of any float switch on the main pump.
2. (a) Remove the black bottom strainer of the pump by pressing in the two tabs on the strainer. There are holes suitable for mounting on the bottom of the strainer. (b) Using a #8-32 x 3/4" stainless screw, washer

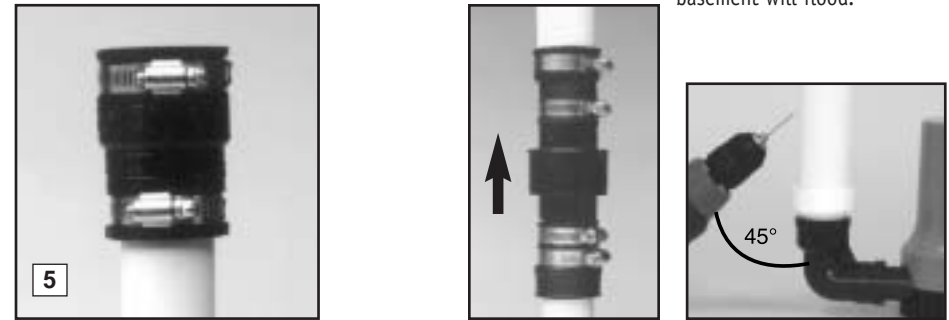


& nut, attach the strainer to the "L" bracket. (c) Once the strainer is attached, simply press the pump body onto the mounted strainer.

3. Cut a three-foot (3') piece of 1½" rigid PVC pipe and cement it to the pipe adapter that is attached to the elbow on the pump.
4. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
5. Attach a rubber union or check valve (sold separately) to the top of the 1½" pipe. This will allow the pump to be removed easily, should the need arise.

The path of the rest of the pipe and the details of each installation will vary. Using sound plumbing practices try to route the discharge pipe to an exterior wall via the shortest path with the fewest turns. More turns will reduce the pumping capacity. The pipe section exiting the building should be on a downward slope so that the water in the pipe will exit outside instead of returning to the sump. Extend the discharge pipe outside the building as far as

possible to avoid the return of discharged water to the sump. *Be sure to seal the hole in the wall where the pipe exits and cement or clamp all connections securely to prevent leaking.* No check valve is needed with this method of installation, as long as you use *less than 20 feet* of pipe.



CAUTION

If you use more than a total of 20 feet of pipe in the installation, install a check valve in place of the rubber union. Make sure it is installed with the arrow pointing up or it will not prevent the backflow of water. When a check valve is used, a 1/8" hole must be drilled in the PVC pipe 3" above the Pro Series pump. If a hole is not drilled above the pump an air lock may prevent the pump from operating, and the basement will flood.

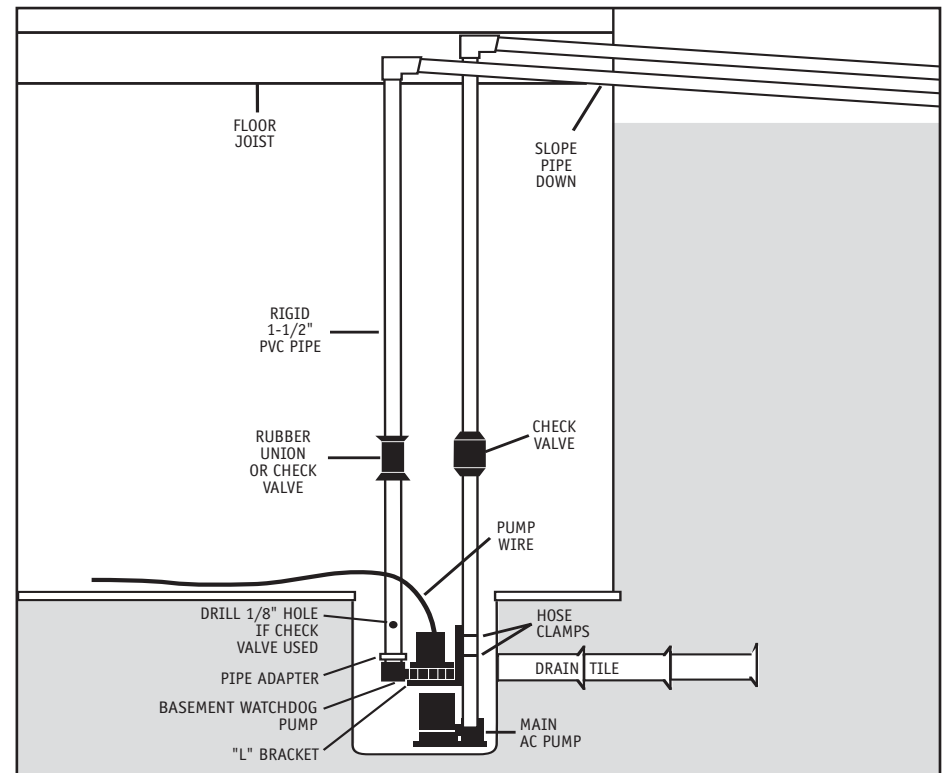


Diagram C

Pump & Pipe Installation Instructions

INSTALLATION D: HOOKUP TO EXISTING DISCHARGE PIPE FOR NARROW SUMP PITS (Diagram D)

⚠ DANGER

Unplug the main AC pump when installing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

1. Attach the "L" bracket to the discharge pipe of the main AC pump with two (2) stainless steel hose clamps. Position the bracket so the bottom of the "L" is just above the top of the main pump, and out of the way of any float switch on the main pump.

2.(a) Remove the black bottom strainer of the pump by pressing in the two tabs on the strainer. There are holes suitable for mounting on the bottom of the strainer. (b) Using a #8-32 x 3/4" stainless screw, washer and nut, attach the strainer to the "L" bracket. (c) Once the strainer is attached, simply press the pump body onto the mounted strainer.

3. Cut a three-foot (3') piece of 1/2" rigid PVC pipe and cement it to the pipe adapter that is attached to the elbow on the pump.

4. (a) Install a check valve on the PVC pipe attached to the Pro Series pump. Make sure it is installed with the arrow pointing up or it will not prevent the backflow of water.

CAUTION

4. (b) When a check valve is used, drill a 1/8" hole in the 1/2" PVC pipe three inches (3") above the connection to the Pro Series pump. Drill the hole at a 45° angle toward the bottom of the sump to avoid splashing water outside the sump pit. If a hole is not drilled above the pump, an air lock may prevent the pump from operating, and the basement will flood.

5. If there is no check valve on the main AC pump, one must be installed at this time. Then install a "Y" connector above the check valve on the discharge pipe for the main AC pump.

6. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with tape.

7. Connect a 1/2" diameter discharge pipe above the check valve of the Pro Series pump, and attach a 45° elbow to that pipe. Extend another piece of pipe to reach the "Y" connector you have inserted above the check valve on the discharge pipe of the main pump.

8. Cement or clamp all connections securely to prevent leaking.

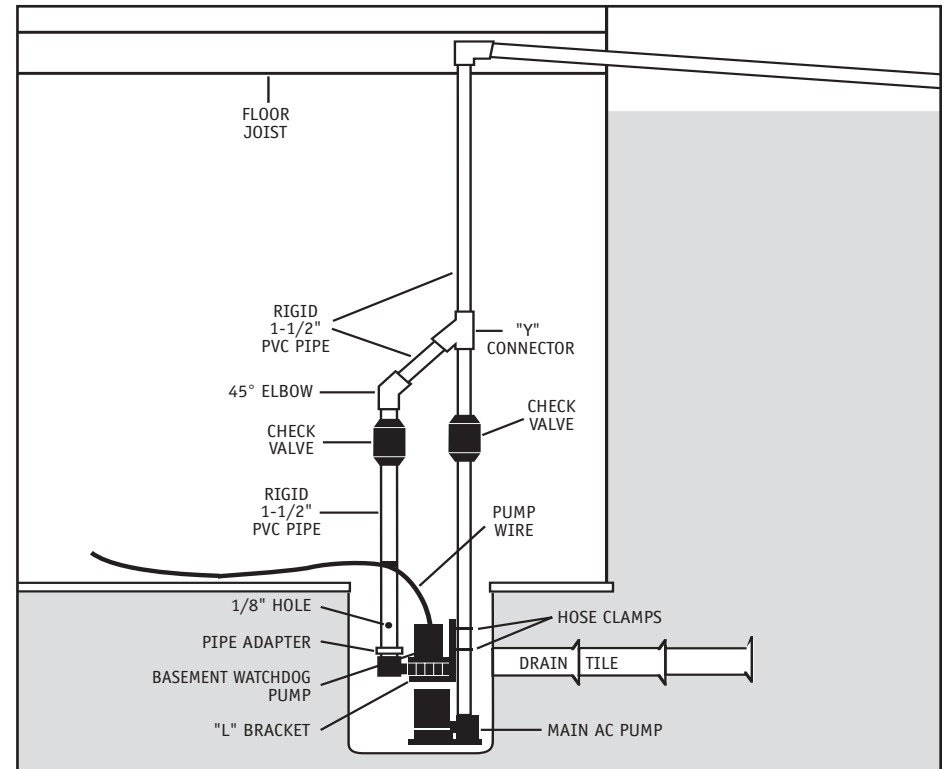
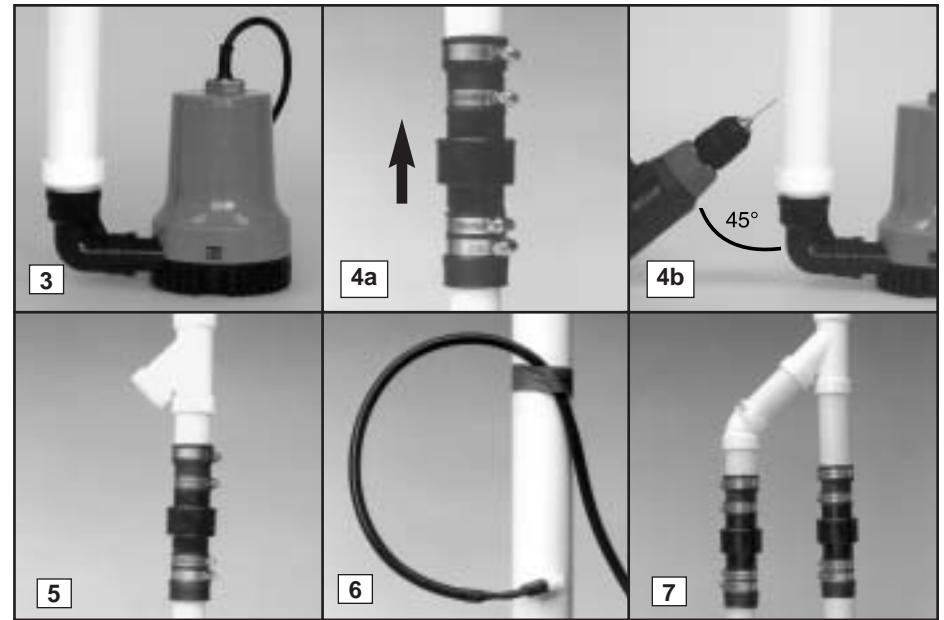
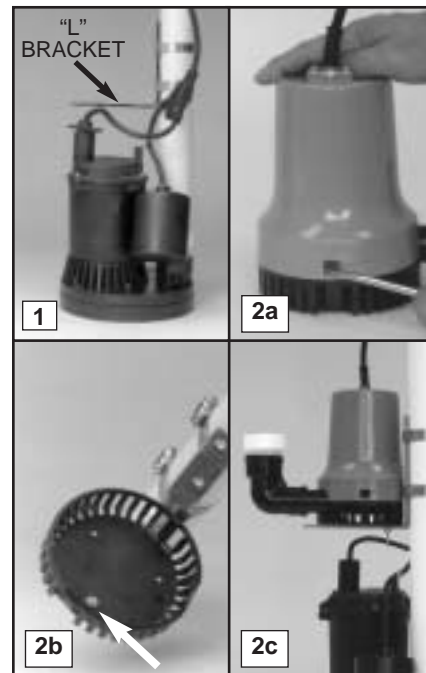


Diagram D

Battery Instructions

A new Pro Series 2200 Standby Battery will run this system for a minimum of 7.5 hours continuously. However, most of the time the pump will turn on and off, and the battery will run the pump intermittently for days. In addition, the unique materials in the battery enable it to last for five to seven years in standby service.

CAUTION

- The use of automotive batteries is NOT recommended. Automotive batteries are not designed for this application. They will only run the pump for a short time and will have a shorter life than a standby battery.
- DO NOT use a maintenance-free or a sealed battery. They are made of different materials and will trigger a false "Battery problem" alarm.
- The battery fluid sensor and cap are designed to fit the Pro Series batteries. Measuring the battery fluid is one of the most important features of the system; since about 80% of backup sump pump failures are the result of a dead battery.

⚠ DANGER

Do not use the enclosed battery cap on any battery except a Pro Series battery. Do not drill a hole in the cap of another brand of battery to accommodate the fluid sensor. Batteries emit explosive gases, which can cause serious injury or death.

PREPARING THE PRO SERIES 2200 STANDBY BATTERY

The Pro Series batteries are shipped dry (without acid) so they never lose power before you take them home. A battery is activated when the acid is added, and then it slowly begins to deteriorate as it ages. By adding the acid just before use, the battery will always be fresh. Use 1.265 specific gravity battery acid to fill the battery. It is available where you purchased the battery.

⚠ DANGER

Wear eye and clothing protection. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid

enters eyes, flush with water for 10 minutes and get medical attention. Review the safety instructions on page 1.

1. Remove the battery box top by pushing in the tabs on the front and back of the box and lifting up.
2. Place the battery box on the floor. Place the dry (unfilled) battery into the battery box. Remove the foil seal on the top of the battery.
- 3.(a) Carefully push in the perforated tab at the top of the acid pack. Lift up the large tab and pull out the dispensing hose. Hold the hose upright above the pack and squeeze the hose forcing all the acid back into the pack. (b) Position the acid pack and battery as shown at the right. Remove the caps from the battery. Pinch the end of the hose together and cut off the tip. Insert the end of the hose into each cell. Control the flow by pinching the hose with thumb and forefinger. *Fill each cell of the battery to a level just covering the battery plates, and then go back and top off each cell equally. It is important to have the cells filled equally or the battery will not operate properly.* The acid should reach a level just below the cap ring. (Diagram E)

A newly filled battery will sometimes require additional acid after about ten minutes. Re-examine the fill level and add additional acid, if necessary. The battery acid may bubble at this time and give off a sulfur-like smell, but this is normal. After the battery has been filled, screw the caps on the top of the battery.

CAUTION

When you fill the battery for the **FIRST** time, it will be the **ONLY** time you add acid to the battery. In the future, when the fluid level is low, add distilled water to the cells. Never add more acid.



Do not throw an old battery in the trash. Take it to a service station or recycling center.

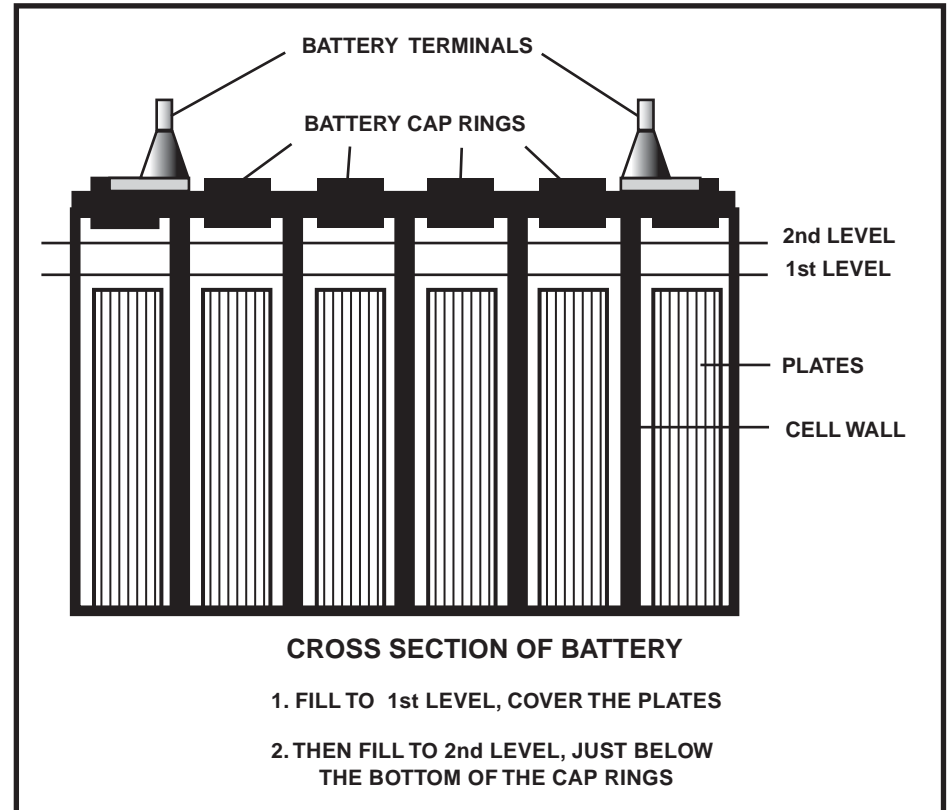
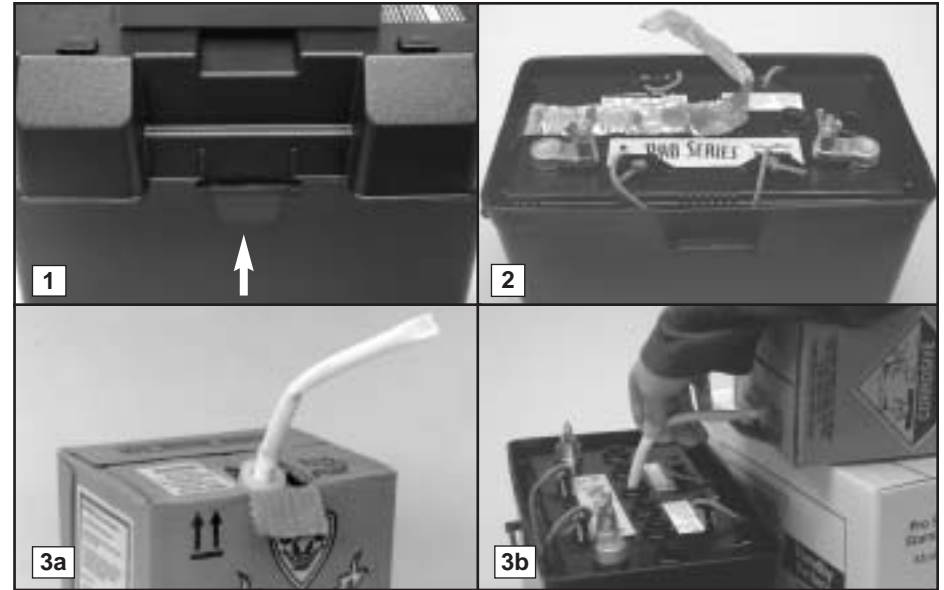


Diagram E

Control Unit Hookup

⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Unplug the main AC pump to avoid electrical shock. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 10 minutes. Review the safety instructions on page 1.

When you position the control unit, be sure the charger cord will reach the AC power outlet and the pump cable and the float switch will reach the bottom of the sump. Position the unit in a well-ventilated area. (Diagram F)

1. Positioning the float switch: The float switch will turn on the pump when the water rises to the top of the switch, and it will remain running as long as the water is above the float switch. When the water drops below the float switch, an internal timer in the control unit will keep the pump running an additional 25 seconds to empty the sump pit. The switch should be mounted about six inches (6") above the water level line in the sump pit. (a) Attach the float switch very securely to the discharge pipe with the plastic wire tie. (b) If the pump is stacked above the main AC pump in a narrow sump pit, the float may be attached to the elbow of the pump. *Be sure the switch is positioned vertically with the mounting bracket at the top. Do not tilt the switch. Do not position the float switch on the side of the discharge pipe facing the drain tile or any incoming rush of water!*

2. Hooking up the pump: Remove the security tag from the pump and plug the pump wires into the pump connector on the back of the control unit.

3. Installing the battery fluid sensor: Remove the cover of the battery box by pushing in the tabs on the front and back, then lifting up. Fan the area around the top of the battery with a piece of cardboard (or another non-metallic material) to remove any hydrogen gas that may have been emitted from the battery. Replace the battery cap that is 2nd from the POSITIVE (+) post of the battery with

the yellow battery cap that is provided in the Pro Series 1730 package. An arrow on the top of the battery marks this position. There are two holes in the battery cap. Insert the fluid sensor in the hole that is off-center on the top of the cap. *Do not glue the sensor into the cap.*

CAUTION

If you are not using the Pro Series battery, you cannot use the battery fluid sensor. However you must attach the sensor to the POSITIVE (+) post of the battery or the alarm will sound continuously. The Pro Series 1730 Sump Pump System will not warn you if the fluid level is low in this configuration. You will need to check your battery every couple of months to see if it needs water. If the battery dries out, the system will not work.



4. Hooking up the battery: Remove the wing nuts from the battery terminals. Remove the security tag from the battery cables. (a) Apply the corrosion material to the posts of the battery. (It has been provided with the system. Read the instructions on the package.) (b) Attach the battery cables to the battery...the BLACK wire to the NEGATIVE (-) post, and then the RED wire to the POSITIVE (+) post. Replace the wing nuts and tighten.

5. Hooking up the charger: Immediately plug the charger into the charger hole on the back of the control unit, then into an AC outlet on the wall. (You can provide additional protection for the control unit by using a surge protector.)

6. Secure the cover on the battery box by slipping the tabs through the fittings on the front and back of the box. **BE SURE TO PLUG IN THE MAIN AC PUMP.**

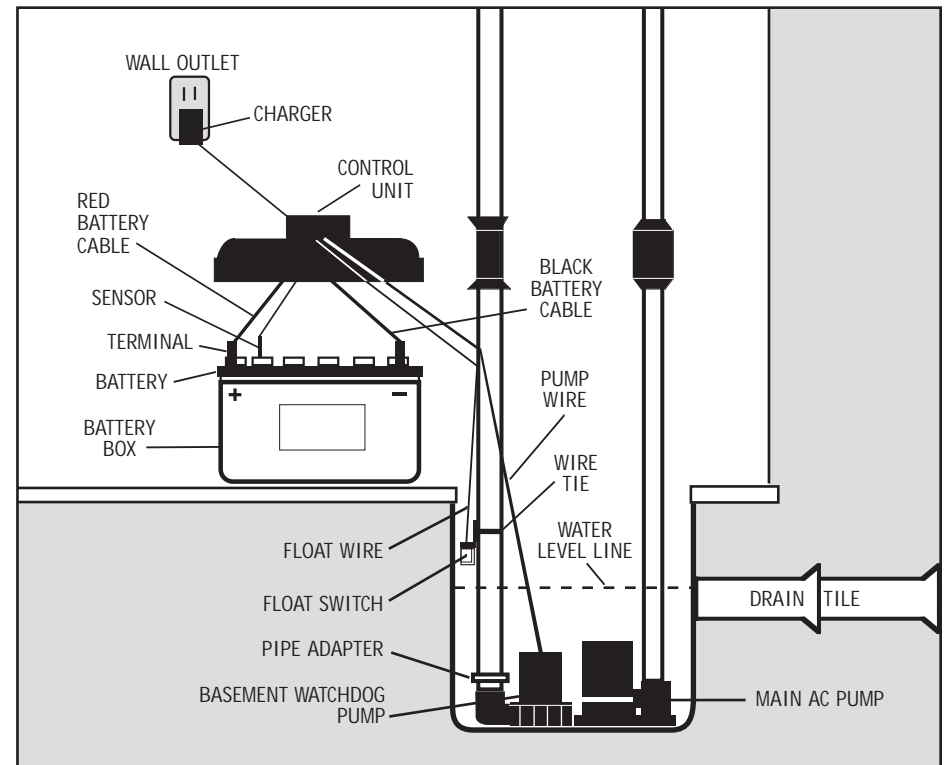
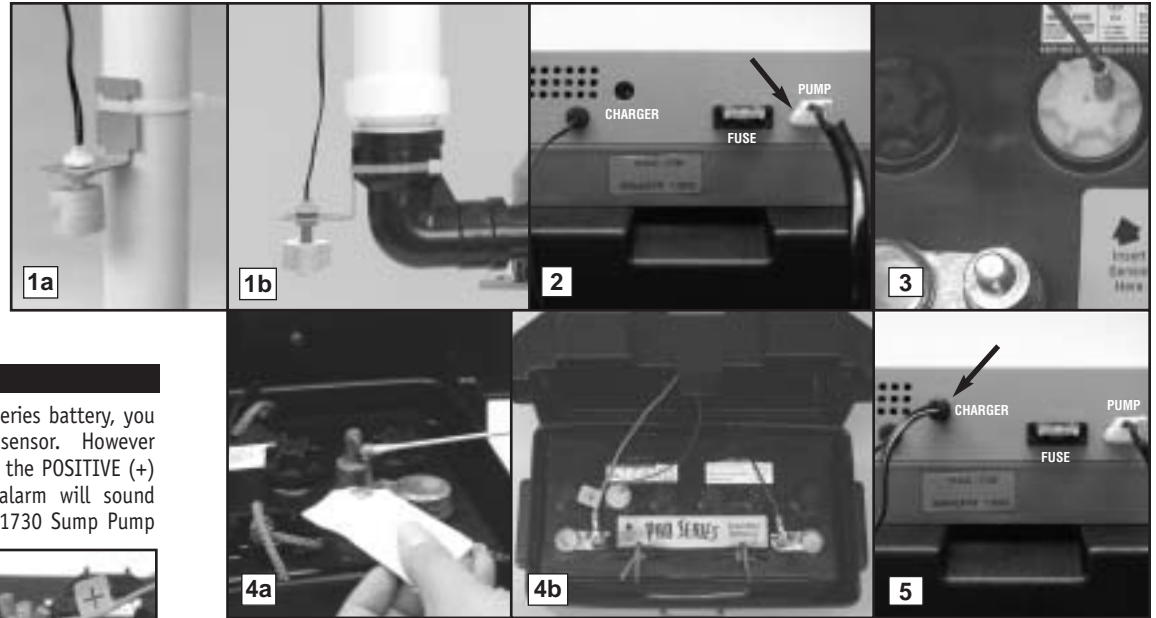


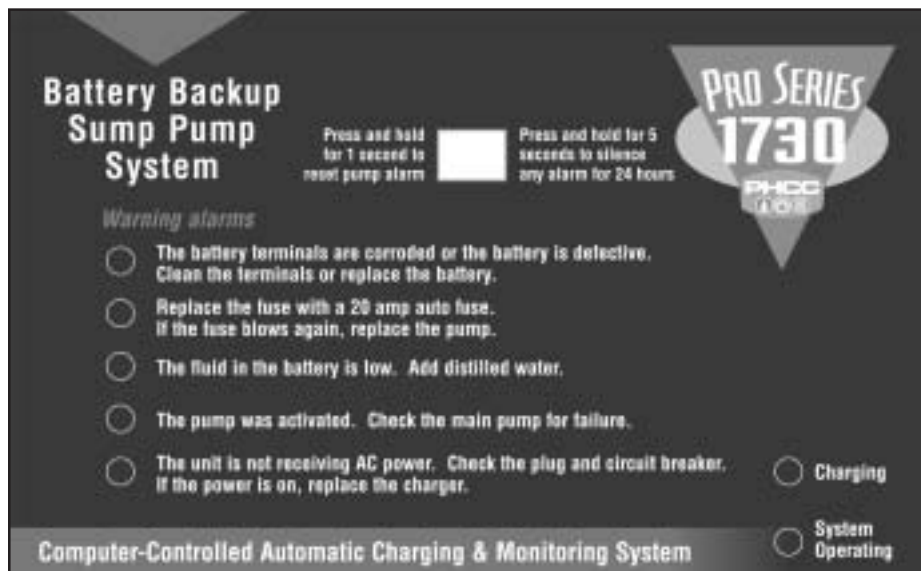
Diagram F

Understanding the Warnings & Alarms

The Pro Series 1730 control unit features a series of warning lights that pinpoint potential problems. In addition, an alarm sounds to alert you to the problem. In some cases, the lights and alarm will go off automatically when the problem has been solved. In others, the GRAY button must be pushed to silence the alarm. Refer to the table below for a quick review of the features and their corresponding alarm status.

Warning	Alarm shuts off automatically when problem is corrected
BATTERY	No, must push "GRAY" button
FUSE	Yes
WATER	Yes
PUMP	No, must push "GRAY" button
POWER	Yes, but light will flash until "GRAY" button is pushed

FRONT PANEL OF CONTROL UNIT



UNDERSTANDING THE AUTOMATIC CHARGING SYSTEM

The Pro Series 1730 is equipped with a computer-controlled automatic charging system. The computer is constantly monitoring the battery and will supply a pre-programmed amount of energy to keep your battery at full charge. The CHARGING light will be on while the battery is charging, and off when it is not charging. The normal charge cycle is in one-hour increments, which increases the life of the battery and reduces the amount of water loss. If the battery is discharged from extended use, the charger will remain on until the battery is completely recharged.

SILENCING THE ALARM DURING AN EMERGENCY

The Pro Series 1730 allows you to silence the alarm during an emergency, however the warning light will remain on until the problem is corrected.

- Press the GRAY button for 1 second to reset the pump alarm, and silence the other alarms for 2 minutes.
- Press the GRAY button for 5 seconds to silence the alarms for 24 hours. A brief buzzing sound will notify you that the alarms have

been silenced. The alarms will automatically reactivate in 24 hours if the warning conditions still exist.

BATTERY ALARM

This light and alarm will go on when the control unit senses that the battery has approximately 1/2 hour of continuous pumping energy left. This could occur when:

- The pump has been running for many hours and is reaching the last half-hour of operating power.
- The battery is getting old and should be replaced.
- Corrosion on battery terminals and/or cable rings is preventing the battery from charging properly.

Check the battery cables and the battery terminals for corrosion. Clean and tighten them as needed. The procedure is described at the right.

If the battery alarm goes on while the pump is running and the power is out, you will have a minimum of 1/2 hour of pumping time to replace the battery. (In most cases, the pump does not run continuously, and therefore, you actually have longer.) You will not be able to silence the alarm. Left unattended, the basement will flood. In a severe emergency, if a replacement battery is not available, you could temporarily use your car battery.

Once the AC power is restored, the battery will recharge automatically, unless it is old or damaged. The alarm will remain on until the GRAY button is pressed for 1 second.

In the event that your Pro Series sump pump system has pumped for an extended period of time, the battery can become very depleted. In this condition, when the AC power is returned to the unit, a battery alarm will continue to sound. The battery may need a longer period to recharge.

For a fast recharge, an automotive or marine battery charger can be used to recharge the battery. Follow the manufacturers instructions and safety information included with the charger.

CAUTION

When another charger is used, first disconnect the Pro Series charger from the control unit, and then disconnect the control unit from the battery. *Charging without disconnecting the control unit will destroy the control unit and void the warranty.*

If the battery is relatively new and the battery alarm is activated, before you replace the battery, call the Glenronics service department at 800-991-0466, option #3.

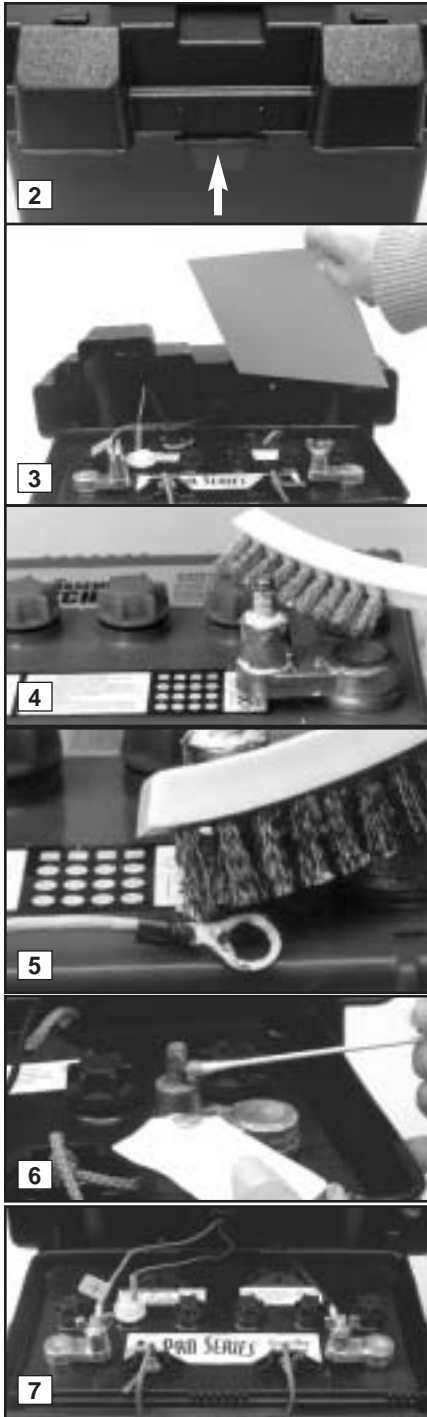
TO CLEAN THE BATTERY TERMINALS AND CABLES

⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 10 minutes. Review the safety instructions on page 1.

REFER TO THE PHOTOS ON PAGE 11.

1. Unplug the charger from the wall outlet.
2. Remove the cover of the battery box by pushing in the tabs on the front and back, then lifting up.
3. Fan the area around the top of the battery with a piece of cardboard (or another non-metallic material) to remove any hydrogen gas that may have been emitted from the battery.
4. Unscrew the wing nuts. Remove the battery cables and clean the battery posts with a battery post terminal cleaner or a wire brush.
5. Clean the corrosion off of the ring connectors on the ends of the battery wires. Use a stiff brush or sandpaper.
6. Apply a terminal protective material.



7. If the fluid sensor has come out of the battery cap, replace it now. Then, replace the battery cables, BLACK to the NEGATIVE (-) post, and then RED to the POSITIVE (+) post. Tighten the wing nuts.

8. Plug the charger into the wall outlet. (You can provide additional protection for the control unit by using a surge protector.)

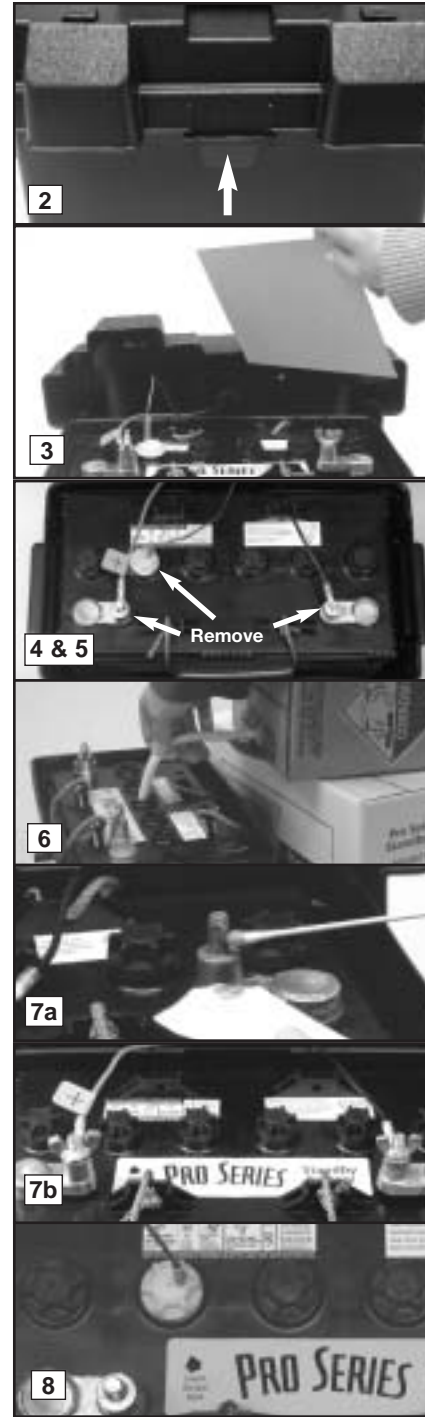
REPLACING THE BATTERY

⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 10 minutes. Review the safety instructions on page 1.

REFER TO THE PHOTOS AT RIGHT.

1. Unplug the charger from the wall outlet.
2. Remove the cover of the battery box by pushing in the tabs on the front and back, then lifting up.
3. Fan the area around the top of the battery with a piece of cardboard (or another non-metallic material) to remove any hydrogen gas that may have been emitted from the battery.
4. Remove the fluid sensor from the battery cap, and then remove the battery cap. Save it for use in the new battery.
5. Unscrew the wing nuts and remove the battery cables.
6. Fill the battery following the instructions on page 8.
7. (a) Apply the corrosion protection material to the battery posts. (b) Replace the battery



cables, BLACK to the NEGATIVE (-) post, and then RED to the POSITIVE (+) post.

8. Rinse and dry the YELLOW cap from the old battery to remove any residue. Replace the BLACK battery cap in the cell that is 2nd from the POSITIVE post with the YELLOW cap from the old battery. Insert the fluid sensor in the cap. Put the BLACK battery cap on the old battery.

9. Plug the charger into the wall outlet. (You can provide additional protection for the control unit by using a surge protector.)

FUSE ALARM

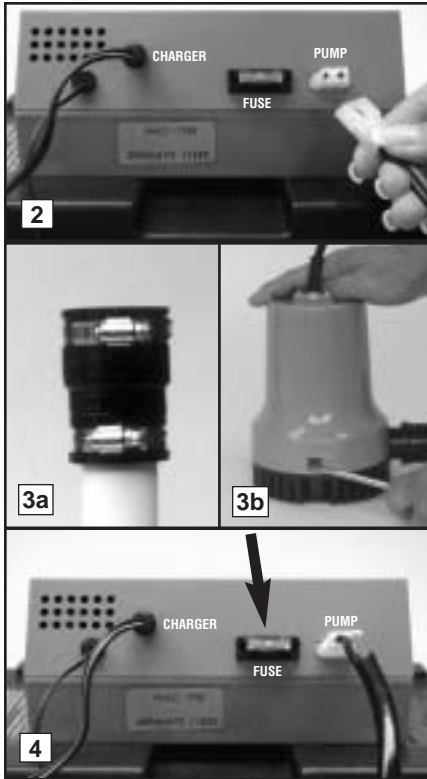
⚠ DANGER

Unplug the main AC pump when installing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

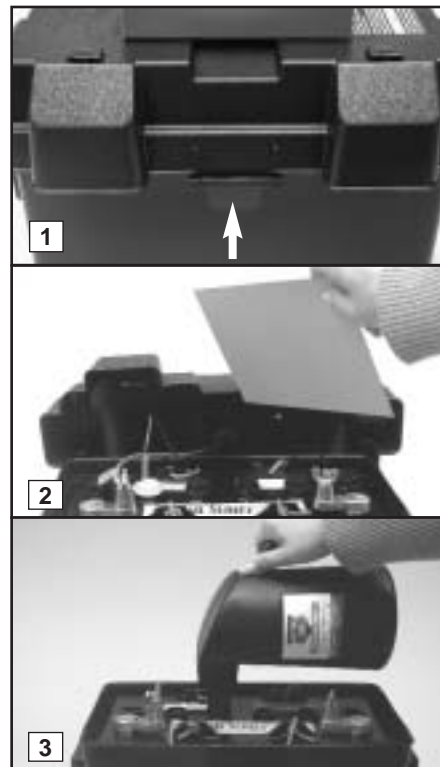
This alarm indicates that the 20-amp safety fuse on the back of the control unit has blown. This can be the result of a clogged pump motor, or pump wires that have been shorted out. To determine the problem:

REFER TO THE PHOTOS ON PAGE 12.

1. Unplug the AC pump from the wall outlet.
2. Unplug the Pro Series pump from the back of the control unit.
3. (a) Release the rubber union or check valve and remove the pump from the sump pit. (b) Remove the strainer and clean out any debris that may have collected in the pump. Replace the pump in the sump pit and tighten the check valve or rubber union.
4. Replace the 20-amp fuse on the back of the unit, and then press the GRAY button. If the fuse blows again, the wires probably have a short. Replace the pump with Pro Series part number 1011007. Leave the pump and pipe in place until the new pump is installed.
5. Plug the AC pump into the wall outlet.



- Fan the area around the top of the battery with a piece of cardboard (or another non-metallic material) to remove any hydrogen gas that may have been emitted from the battery. Then remove the fluid sensor from the battery cap. The alarm will sound when the sensor is removed.
- Unscrew the six battery caps. Add distilled water to each cell. If distilled water is not available; tap water with a low mineral content may be used. Well water is not recommended. **NEVER ADD MORE ACID.** Fill the battery to level 2 as shown in Diagram E on page 8.
- Replace the battery caps and the fluid sensor. Be sure the fluid sensor is positioned in the 2nd cell from the positive post. It's marked with an arrow on the top of the battery. The warning light and alarm will turn off automatically when the battery is refilled and the sensor is replaced.
- Replace the battery box cover.



WATER ALARM

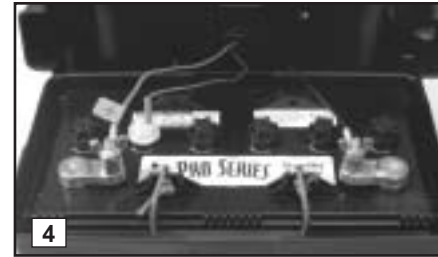
⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 10 minutes. Review the safety instructions on page 1.

REFER TO THE PHOTOS AT RIGHT.

If this warning light and alarm are on, you need to add distilled water to the battery.

- Remove the top of the battery box by pushing in the tabs on the front and back, then lifting up.



POWER ALARM

There are several causes for power failure. The most common is a power outage by your electric company. During this emergency, the Pro Series 1730 system will automatically switch to battery power and protect your basement from flooding. You can silence the POWER alarm for 24 hours by pressing the GRAY button for 5 seconds. When the button is pressed for 5 seconds, you will hear a brief buzzing sound to notify you that the alarms have been silenced for 24 hours. After 24 hours, the alarm will automatically reactivate. The pump will continue to operate while the alarm is silenced.

For your convenience, the POWER alarm has a built-in memory that will notify you when a power outage has occurred, and the power has since been restored. The alarm will turn off when the power is restored, but the POWER light will flash (like your VCR). The flashing light will continue until the GRAY button is pressed for 1 second.

If the power is on in the rest of the house, check the home circuit breaker or fuse box for failure, and correct the problem.

Check the charger. Make sure it is securely plugged into the wall outlet.

Check the charger plug that fits into the rear panel of the control unit. Make sure it is securely plugged into the control unit.

The control unit must receive 115 volts AC +/- 5% from the AC outlet. Any voltage lower than this will cause the power failure alarm to activate.

Lower voltages can be caused by utility company brown outs or a heavy power draw from other appliances on the same circuit.

If all the connections are secure and the wall outlet is operating, but the POWER warning light is still on, replace the charger unit with Pro Series part number 1015001.

PUMP ALARM

When the water rises in the sump pit and activates the float switch, the pump will begin pumping, and the PUMP light and alarm will activate. The PUMP warning stays on to alert you to the fact that the standby system was used to empty water from the sump. Try to determine what caused the system to activate.

- Check the main pump for failure. It may not be working, the float switch may be stuck, or it may be too small to handle the inflow of water
- Make sure the check valve is working and installed correctly
- Make sure the discharge pipe is not clogged or frozen
- If the power was out, and the backup pump was activated, you need to push the GRAY button to silence the alarm

REPLACING THE PUMP

⚠ DANGER

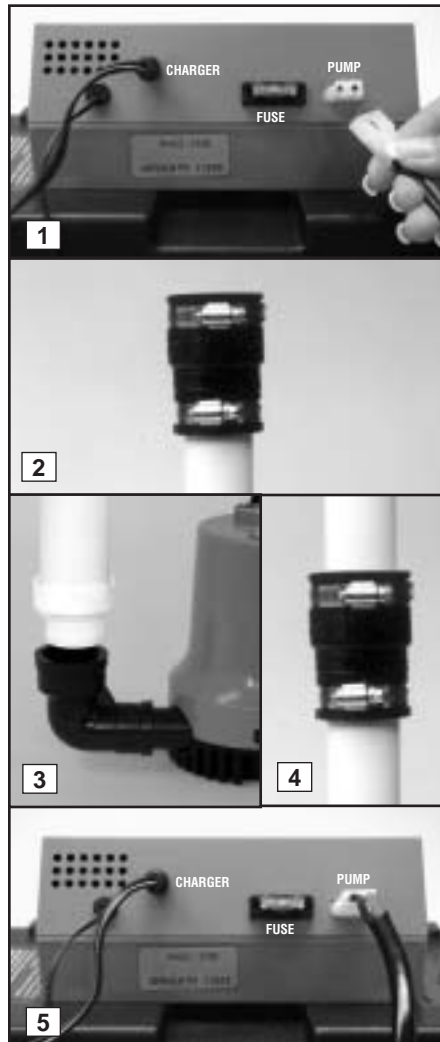
Unplug the main AC pump when installing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death. Review the safety instructions on page 1.

REFER TO THE PHOTOS ON PAGE 13.

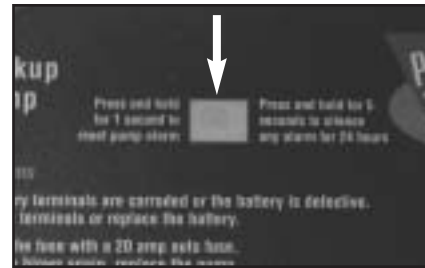
- Unplug the pump from the back of the control unit.
- Release the rubber union or check valve and remove the pump and the rigid PVC pipe section from the sump.
- Unscrew the pipe and fitting from the old pump and screw them into the new pump.

- Lower the pump into the sump and reconnect the rubber union or check valve.
- Plug the pump wires into the back of the control panel.

BE SURE TO PLUG IN THE MAIN AC PUMP.



TEST-RESET-SILENCE BUTTON



To test the pump, press the GRAY button for 1 second. The pump will run for 25 seconds and then shut off automatically.

To silence any alarm, press the GRAY button for 1 second.

To reset the BATTERY or PUMP alarm, press the button for 1 second.

To silence all the alarms for 24 hours, press the GRAY button for 5 seconds until you hear a buzz. The alarms will automatically re-activate in 24 hours.

TESTING THE FLOAT SWITCH

It is important to manually test the float switch periodically.

Lift the float up and let go. This will activate the pump. The control unit will run the pump for approximately 25 seconds so it can empty all the water in the sump pit. If there is no water in the pit, the pump can run dry for this amount of time. The alarm will sound and the PUMP light will go on. After the pump has stopped, push the GRAY button to silence the alarm. If the GRAY button is pressed before the pump has stopped, the alarm will go off temporarily. Wait for the pump to stop pumping, and then push the GRAY button to completely silence the alarm.



PARTS & SERVICE INFORMATION

You can receive technical support, parts or service information by calling Glenetronics, Inc. at (800) 991-0466 or visiting the website at www.basementwatchdog.com. Send your unit to the following address for repairs:

Glenetronics, Inc.
1150 Willis Ave.
Wheeling, IL 60090-5817

Quick Reference Guide

⚠ DANGER Read safety warnings & instructions before attempting any repairs or maintenance.

BATTERY ALARM

Possible Reasons	Remedies
Terminals are corroded	Clean terminals & cables
Cables are loose	Tighten wing nuts
Battery is discharged	Replace battery if power is out. There is only 1/2 hour of continuous pumping power left. Battery will recharge when power is restored
Battery is damaged or old	Replace battery

FUSE ALARM

Possible Reasons	Remedies
Pump is clogged	Remove pump and strainer. Clean out any debris Replace the 20-amp fuse
Pump wires are exposed	Replace the pump
Pump is defective	Replace the pump

WATER ALARM

Possible Reasons	Remedies
The battery fluid is low	Add distilled water to the battery

PUMP ALARM

Possible Reasons	Remedies
The main AC pump failed because of a power outage	None. The backup pump was activated
The main AC pump is defective	Replace the main AC pump
The float switch on the main AC pump is jammed or defective	Free the float switch or replace it
The main AC pump could not keep up with the inflow of water	None. The backup pump was activated. If this is a recurring problem, install a higher capacity main pump
The float switch on the backup pump is defective	Replace the float switch
The check valve is stuck or installed improperly and the water returns to the sump pit	Replace the check valve or correct the installation
The discharge pipe is blocked and the water returns to the sump pit	Clean out or replace the discharge pipe

POWER ALARM

Possible Reasons	Remedies
Power outage	None. The backup pump will run on the battery
A fuse or circuit breaker has failed	Replace the fuse or reset the circuit breaker
The charger is unplugged from the back of the control unit, or unplugged from the wall	Make sure the charger is plugged in securely
The charger is receiving less than 110 volts from the outlet	None, if the utility company has instigated brown outs. Otherwise, reduce the number of other appliances on the circuit

Limited Warranty

GLETRONICS, INC. warrants to the original retail purchaser that all of its pump, switch, sensor, battery box and control unit products are free from defective materials and workmanship for the period indicated below:

All parts and labor (excluding installation) for a period of three (3) years from the date of purchase

The defective product must be returned directly to the factory, postage prepaid with the original bill of sale or receipt to the address listed below. Glentronics, Inc., at its option, will either repair or replace the product and return it postage prepaid.

CONDITIONS

The unit must be shipped freight prepaid, or delivered, to Glentronics, Inc. to provide the services described hereunder in either its original carton and inserts, or a similar package affording an equal degree of protection.

The unit must not have been previously altered, repaired or serviced by anyone other than Glentronics, Inc., or its agent; the serial number on the unit must not have been altered or removed; the unit must not have been subject to accident, misuse, abuse or operated contrary to the instructions contained in the accompanying manual.

The dealer's dated bill of sale, or retailer's receipt, must be retained as evidence of the date of purchase and to establish warranty eligibility.

This warranty does not cover product problems resulting from handling liquids hotter than 120 degrees Fahrenheit, handling inflammable liquids, solvents, strong chemicals or severe abrasive solutions; normal wear; user abuse; misuse, neglect, improper maintenance, commercial or industrial use; improper connections or installation; damages caused by lightning strikes, excessive surges in AC line voltage, water damage to the controller, other acts of nature, or failure to operate in accordance with the enclosed written instructions.

GLETRONICS, INC. WILL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTIES ON THIS PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INDIRECT DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS EXPRESS WARRANTY SHALL BE EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY, OR OF ANY IMPLIED WARRANTY NOT EXCLUDED HEREIN, SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT.

For information or service contact:

Glentronics, Inc.
1150 Willis Ave.
Wheeling, IL 60090
800-991-0466

Model # PHCC -1730 Serial # _____ Purchase Date _____

